

K21 Engine Controller

Diesel Engine Management System

easy to use, safe, reliable, reduces running costs

low oil pressure shutdown	high coolant temp shutdown	RPM display overspeed shutdown	100 hour run timer	engine hour meter	battery voltage monitor/display
J1939 CANBUS ready	fault history logger	configurable digital inputs	IP66 control module UV stable	MODBUS / Telemetry Ready	Low Radiator Level Shutdown
				4-20mA Pump Pressure	9-30VDC compatible

- * Entry level cost effective control panel for small to medium size diesel engines.
 - * Engine push button Start and Stop. With over crank protection.
 - * Bi-directional remote telemetry connection to a PLC and SCADA networks and to a website via Satellite or GSM modem.
 - * Bright graphical display showing all engine data and warning/faults. RPM, battery voltage and engine hours are shown.
 - * Complete engine protection on low oil pressure switch or sender and high engine temperature switch or sender. Includes low radiator coolant level detection and overspeed engine shutdown.
 - * Robust IP66 control module in a powder coated enclosure with vibration isolators.
 - * Engine speed control via CANBUS J1939 for electronic engines. Not available on mechanical engines.
 - * Programmable 100hour run timer. Set it, start the engine and walk away.
 - * Spare digital inputs.
 - * One panel to suit mechanical engines or electronic CANBUS J1939 engines.
 - * In built data logging on all engine faults.
 - * Easy to set up and program.
- Will permit future software upgrades via a computer.
4-20mA Pump Pressure input for pump pressure protection (requires 4-20mA Transducer).



Easy to read display, large icons and characters. The LCD can be viewed in direct sunlight.



Sturdy enclosure with die cast hinges and latch.

Product Description

Reduce your operating costs and increase the engine's life cycle.

The K21 engine controller is designed for the off-road stationary diesel engine market. It is a cost effective entry level control panel. The controller's primary function is the management of your diesel engine. The software and hardware are designed to be simple and easy to use. The K21 is used in the following in a basic application: waste water de-watering, irrigation pumping, power generation, air compressors, high pressure cleaners, lighting towers, dust suppression pumping, tank filling, sewer bypass, frost control and fire pumps.

Works with a wide range of diesel engines.

The K21 is suitable on both electronic or mechanical engines. On electronic engine the speed can be increased by pressing up/down arrows. Mechanical engines must be controlled with a mechanical throttle cable. This controller is suitable for use on the following engine brands: Caterpillar, Cummins, MTU, Detroit, Perkins, Deutz, Hatz, Scania, Kubota, Yanmar, JCB, Lister and various engines from Asia.

Telemetry will keep you connected to your asset. (Via Satellite/GSM/GPS)

The controller's telemetry capabilities make certain you will always be connected to your asset via a smart phone, tablet or computer. You have the option of sending data to a 3G network or the option of a go-anywhere satellite network. Just choose the right modem/data package to suit your budget. PLC, RTU or SCADA users can also connect to the K21. The control panel has inbuilt data logging capabilities and captures all shutdown messages.

Engine Wiring and Panel Kits to suit your build.

The controller is normally supplied in kit form. This kit includes the controller in an enclosure, an engine wiring loom, a throttle actuator, secondary solenoids, mounting brackets and any other components your build will require. Just mention what you need and we will supply.

Software features

<ul style="list-style-type: none"> * Engine Hours display (Hour Meter) * Engine RPM display and Overspeed protection * Accepts tachometer RPM signal from: <ul style="list-style-type: none"> Alternator W+ J1939 CANBUS ECU Magnetic Pick Up on Fly Wheel * Engine Speed control via CANBUS J1939 * Displays all engine fault messages (J1939 included) * Data logs all engine fault messages * MODBUS (RS232/485) Communication 	<ul style="list-style-type: none"> * Low radiator coolant level shutdown * Low Engine Oil Pressure sensor or switch engine shut down * High Engine Temperature sensor or switch engine shut down * Glow Plug Excitation (requires high Current Relay) * Battery Voltage VDC display with low battery warning * 4-20mA Pump Pressure Analogue input * Loss of RPM Engine Shut Down * 100 hour programmable Stop Timer * Programmable analogue or digital inputs * Monitoring of messages ONLY permitted via website.
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Hardware features

<p>2.6" Graphical monochrome display (visible in direct sunlight)</p> <p>9-30VDC Input Voltage</p> <p><40mA Current Consumption in Sleep Mode</p> <p>-40 to 85°C Storage Temperature</p>	<p>IP65 Enclosure Powder Coated 250tall x 200wide x 150deep</p> <p>IP66 control module water ingress protection</p> <p>-20 to 75°C Operating Temperature</p> <p>Reverse polarity protection</p>
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#	Description	#	Description
2	LED indication	2	Outputs 20A 1 Output 1A
1	Radiator Coolant Level Input	1	4-20mA Pump Pressure
1	Alternator W+ or MPU Input	4	Digital Inputs Active Low
1	Alternator Excitation Output	1	Digital Inputs Active High
1	J1939 CAN Hi, CAN Lo	1	RS232/485 MODBUS Communication

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